

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,092,924 B1
APPLICATION NO. : 10/086988
DATED : August 15, 2006
INVENTOR(S) : Mark D. Levedahl

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5:

Line 38, after "of these subject to:" delete " $m \leq n \leq N$ " and insert -- $m \leq n \leq N$ --.

Column 6:

Line 19, delete Equation (5) and insert -- $\forall(i \neq j \text{ and } a(j) > 0)$ --.

Line 27, delete Equation (6) and insert

$$P_a = \frac{e^{-\bar{x}^T R^{-1} \bar{x}/2}}{(2\pi)^{M/2} \sqrt{|R|}} \prod_i^m \frac{e^{-[A_i - B_{a(i)} - \bar{x}]^T (P_i + Q_{a(i)})^{-1} [A_i - B_{a(i)} - \bar{x}]/2}}{(2\pi)^{M/2} \sqrt{|P_i + Q_{a(i)}|}}$$

--.

Column 8:

Line 19, delete Equation (11) and insert

$$g = 2 \ln \left[\frac{\beta_i P_{TA} P_{TB}}{(2\pi)^{M/2} P_{NTA} P_{NTB}} \right]$$

$$P_{NTA} = \beta_i P_{TB} (1 - P_{TA}) + \beta_{FTA}$$

$$P_{NTB} = \beta_i P_{TA} (1 - P_{TB}) + \beta_{FTA}$$

--.

Line 39, delete Equation (12) and insert

$$\delta f_i^2 = [A_i^f - B_{a(i)}^f]^T (F_{i,a(i)})^{-1} [A_i^f - B_{a(i)}^f] + \ln |F_{i,a(i)}|$$

$$J_{af} = -\bar{x}^T R^{-1} \bar{x} - \ln [(2\pi)^M |R|] - \sum_{i=1}^m \left\{ \begin{array}{ll} \delta x_i^T S_i^{-1} \delta x_i + \ln |S_i| + \delta f_i^2 & a(i) \neq 0 \\ g & a(i) = 0 \end{array} \right\}$$

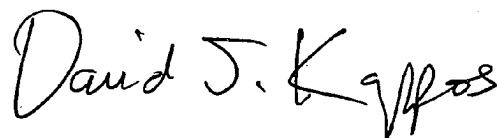
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Column 8:

Line 53, after "make k assignments," delete " $0 \leq k \leq m$ " and insert -- $0 \leq k \leq m$ --.

Signed and Sealed this

Fourteenth Day of September, 2010



David J. Kappos
Director of the United States Patent and Trademark Office

Column 9:

Line 53, delete Equation (17) and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[S_i]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \begin{matrix} \ln([2\pi]^M |R|) & n_a = 0 \\ 0 & n_a > 0 \end{matrix} \right\} \quad --.$$

Column 12:

Line 22, after “where” delete “ $k_g \geq 1$ ” and insert -- $k_g \geq 1$ --.

Line 56, delete Equation (18) and insert

$$P_i = P_i + R \quad --.$$

Column 14:

Line 58, Claim 2, after “associated input” delete “are” and insert -- **arc** --.

Column 15:

Line 8, Claim 5, delete the equation found after “the cost function is” and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[S_i]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \begin{matrix} \ln([2\pi]^M |R|) & n_a = 0 \\ 0 & n_a > 0 \end{matrix} \right\} \quad --.$$

Column 16:

Line 20, Claim 16, delete the equation found after “the cost function is” and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[S_i]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \begin{matrix} \ln([2\pi]^M |R|) & n_a = 0 \\ 0 & n_a > 0 \end{matrix} \right\} \quad --.$$

Column 16:

Line 42, Claim 17, after \bar{X} , delete “o the cost” and insert -- **of the cost** --.

Column 17:

Line 34, Claim 27, delete the equation found after “the cost function is” and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[S_i]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \begin{matrix} \ln([2\pi]^M |R|) & n_a = 0 \\ 0 & n_a > 0 \end{matrix} \right\} \quad --.$$

Line 48, after “M=Number of” delete “fist” and insert -- **first** --.

Line 50, delete the equation after “a=Assignment vector:” and insert -- $a_{(i)} > 0 \rightarrow A_i$ --.

Line 57, Claim 29, delete the equation found after “the cost function is” and insert

$$J_s - \bar{x}^T R^{-1} \bar{x} - \sum_{i=1}^s \left\{ \frac{\delta x_i^T S_i^{-1} \delta x_i + \ln[S_i]}{\bar{g}} - \ln(d_{\min}) \quad \begin{matrix} a(i) \neq 0 \\ a(i) = 0 \end{matrix} \right\} + \left\{ \begin{matrix} \ln([2\pi]^M |R|) & n_a = 0 \\ 0 & n_a > 0 \end{matrix} \right\} \quad --.$$